

***FlyBy Math™* Alignment**
To the Massachusetts Mathematics Curriculum Framework
Grade-Level Standards, Nov 2000

Patterns, Relations, and Algebra Strand

Students engage in problem solving, communicating, reasoning, connecting, and representing as they:

Grade-Level Standard	<i>FlyBy Math™</i> Activities
6.P.4 Represent real situations and mathematical relationships with concrete models, tables, graphs, and rules in words and with symbols, e.g., input-output tables.	<p>--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.</p> <p>--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.</p>
6.P.6 Produce and interpret graphs that represent the relationship between two variables in everyday situations.	<p>--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.</p> <p>--Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.</p>
6.P.7 Identify and describe relationships between two variables with a constant rate of change. Contrast these with relationships where the rate of change is not constant.	-- Compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.

Geometry Strand

Students engage in problem solving, communicating, reasoning, connecting, and representing as they:

Grade-Level Standard	<i>FlyBy Math™</i> Activities
6.G.4 Graph points and identify coordinates of points on the Cartesian coordinate plane (all four quadrants).	--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.

Measurement Strand

Students engage in problem solving, communicating, reasoning, connecting, and representing as they:

Grade-Level Standard	<i>FlyBy Math™</i> Activities
6.M.3 Solve problems involving proportional relationships and units of measurement, e.g., same system unit conversions, scale models, maps, and speed.	<p>--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.</p> <p>--Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.</p>